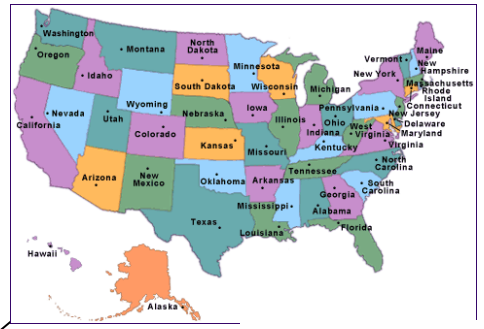
Naming Conventions

Utah Department of Health

CDC
Centers for Disease Control and Prevention

United States Environmental Protection Agency



Utah Department of Environmental Quality

utah birth defect network

uhin
Utah Health Information Network

Pedigree and Population Resource:
UTAH POPULATION DATABASE

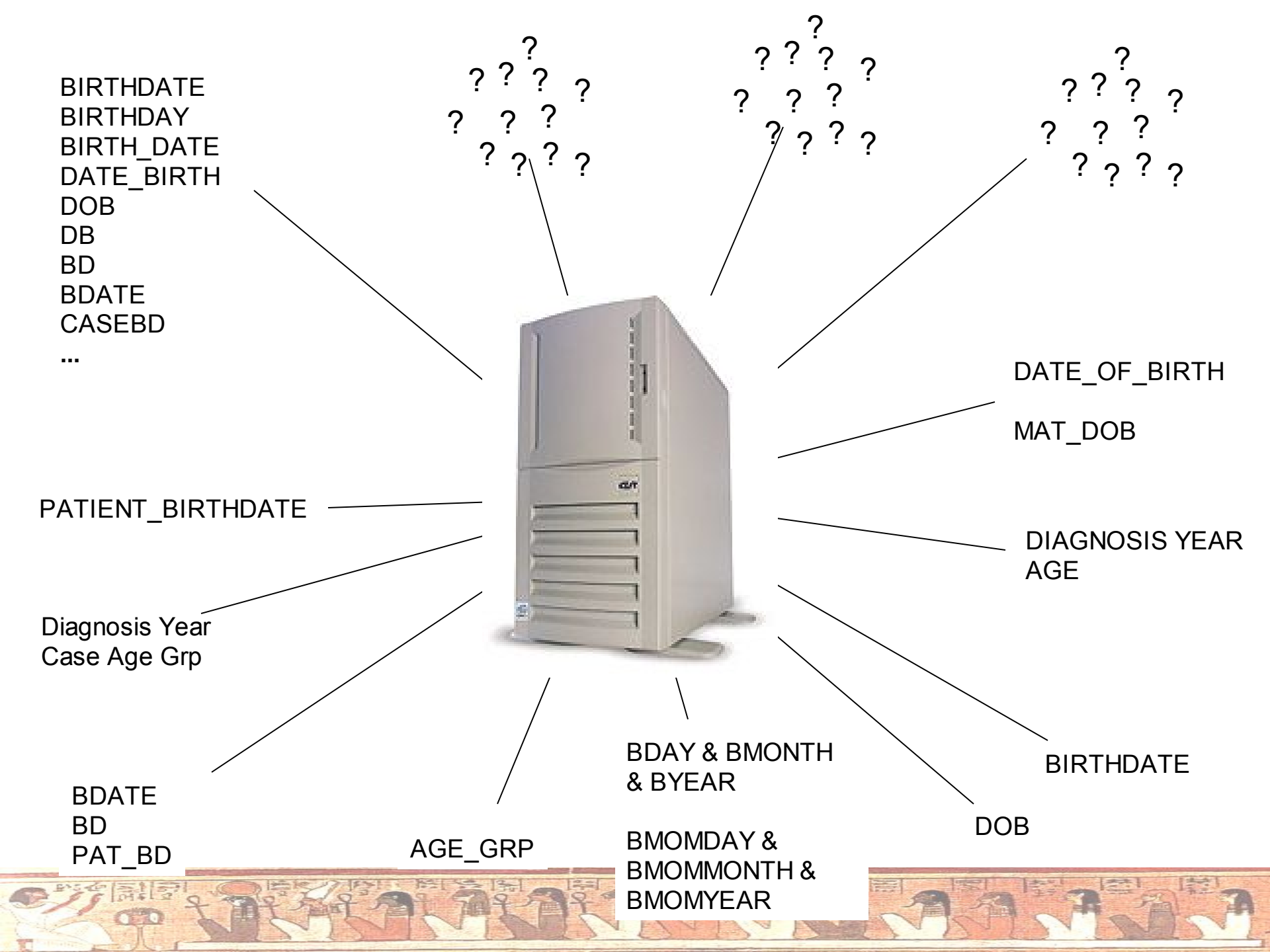
HEALTH CARE FINANCING

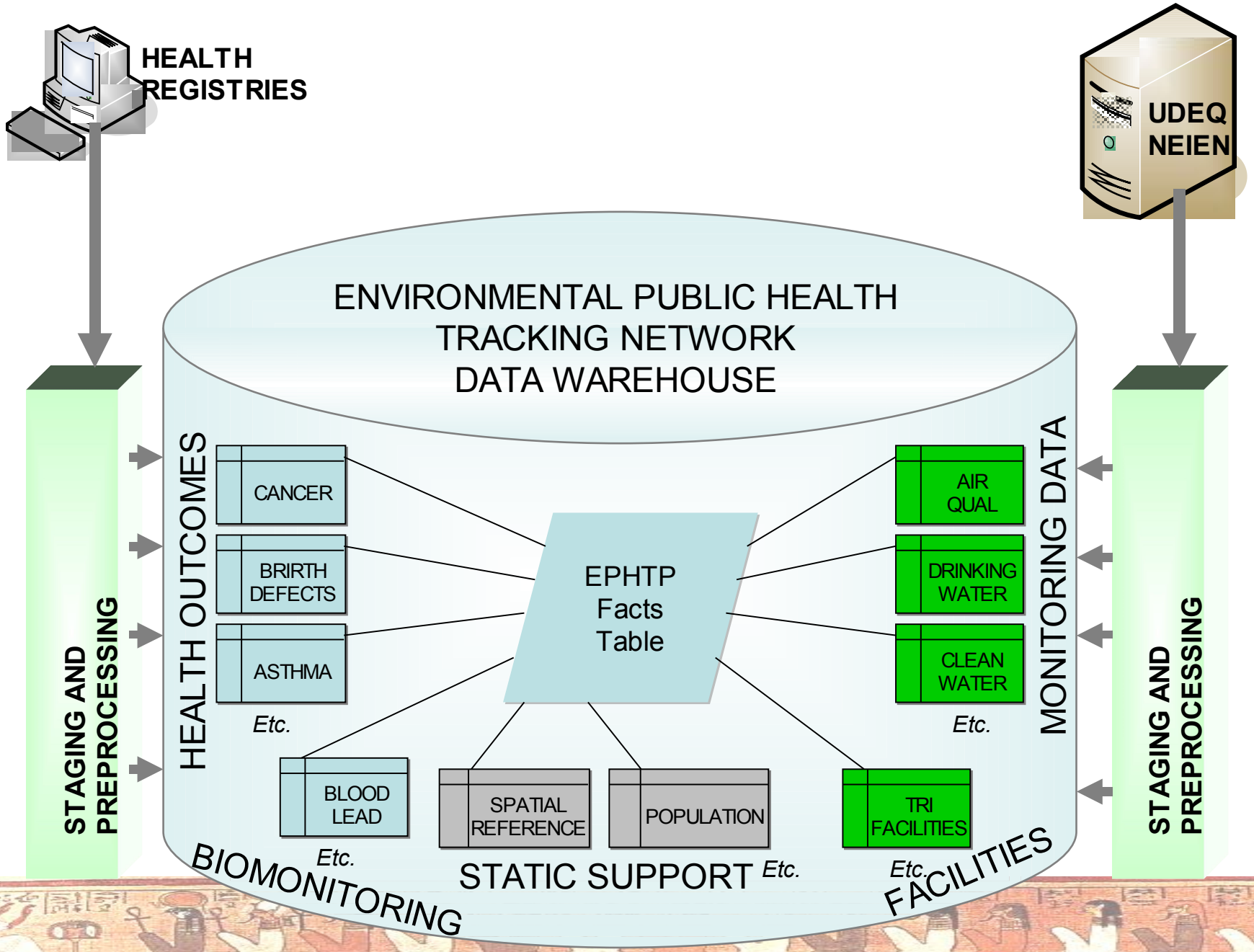
UTAH PUBLIC HEALTH LABATORY

IBIS-PH

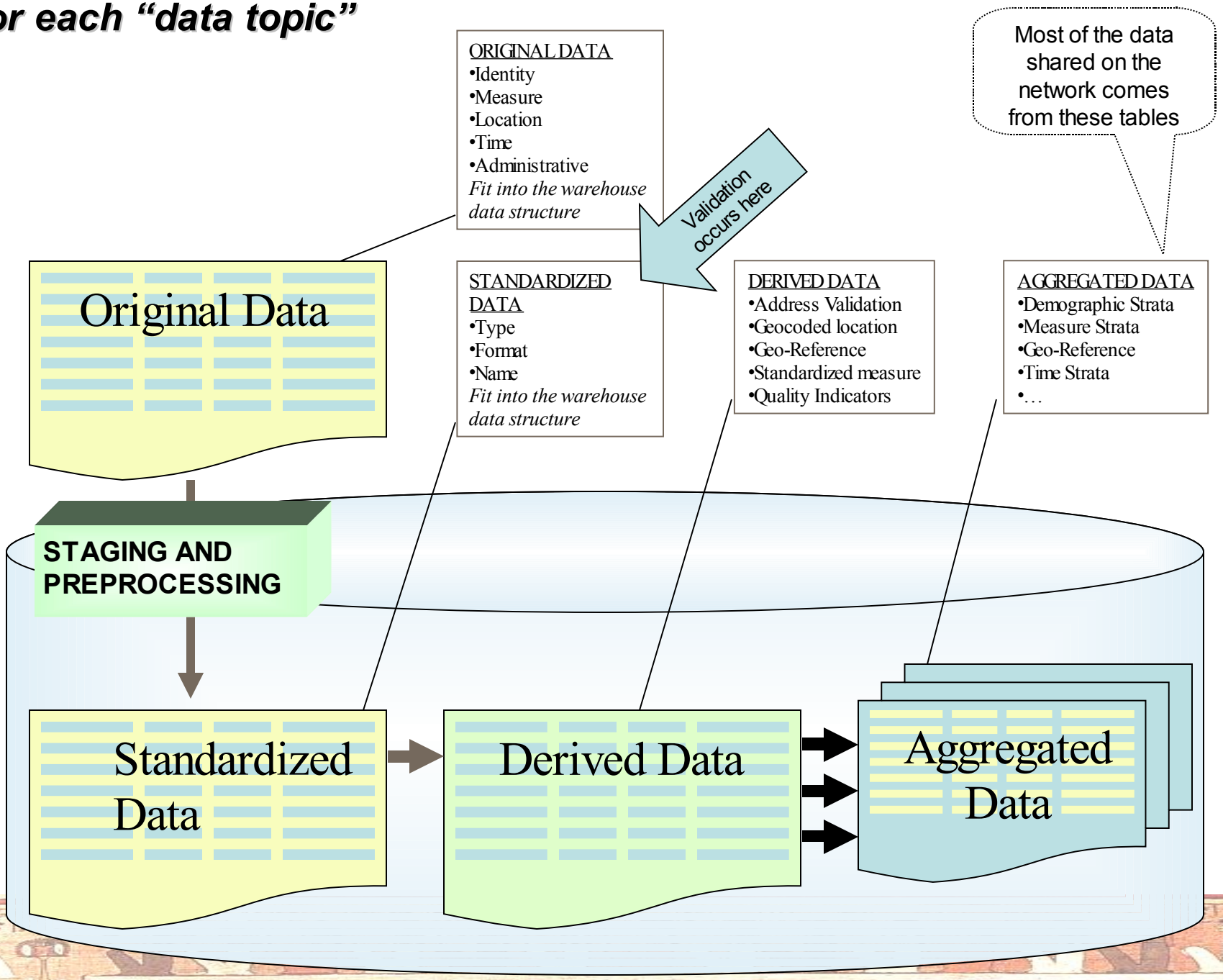
VRS Office of Vital Records and Statistics

Utah Health Data Committee
Office of Health Care Statistics


BIRTHDATE
BIRTHDAY
BIRTH_DATE
DATE_BIRTH
DOB
DB
BD
BDATE
CASEBD
...
DATE_OF_BIRTH
MAT_DOB
PATIENT_BIRTHDATE
DIAGNOSIS YEAR
AGE
Diagnosis Year
Case Age Grp
BDATE
BD
PAT_BD
AGE_GRP
BDAY & BMONTH
& BYEAR
BMOMDAY &
BMOMMONTH &
BMOMYEAR
DOB
BIRTHDATE


HEALTH REGISTRIES
UDEQ NEIEN
ENVIRONMENTAL PUBLIC HEALTH TRACKING NETWORK DATA WAREHOUSE
STAGING AND PREPROCESSING
HEALTH OUTCOMES
CANCER
BRIRTH DEFECTS
ASTHMA
Etc.
EPHTP Facts Table
MONITORING DATA
AIR QUAL
DRINKING WATER
CLEAN WATER
Etc.
STAGING AND PREPROCESSING
BLOOD LEAD
Etc.
BIOMONITORING
SPATIAL REFERENCE
POPULATION
Etc.
STATIC SUPPORT
TRI FACILITIES
Etc.
FACILITIES

For each "data topic"



MICROBIOLOGIST

TURNED

TREE HUGGER

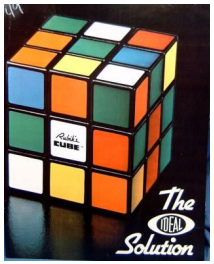
PASSED OFF AS

AN

"ENVIRONMENTAL EPIDEMIOLOGIST"

One view of the value of epidemiology

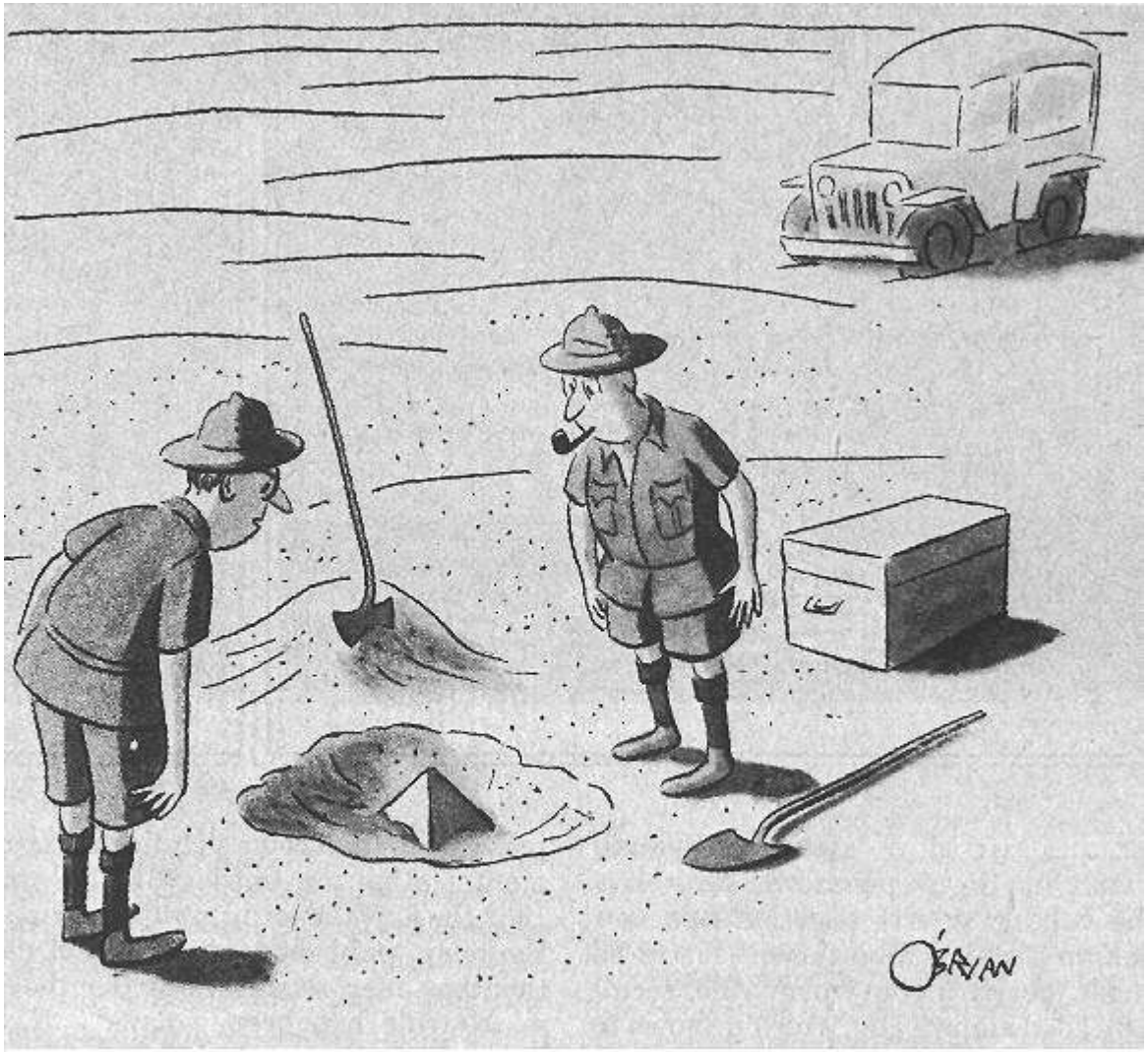
BAKER CITY
CAFE & COFFEE
OPEN
Merry Christmas



a Solution

- Global naming convention standards
  - ISO/IEC 11179-5 (available at http://isotc.iso.ch)

- Uniform organizational naming convention standards
  - Based on national/international standards
  - Adopted to organizational business requirements

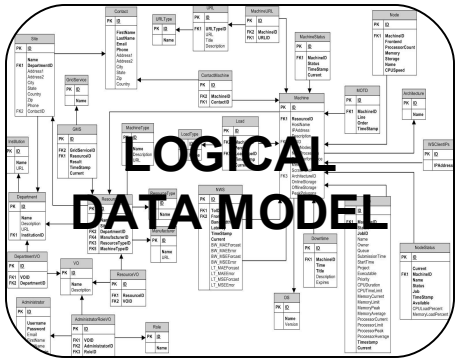


"This could be the discovery of the century. Depending, of course, on how far down it goes."

I know something

you don't know!

Definitions



DATA ENTITY

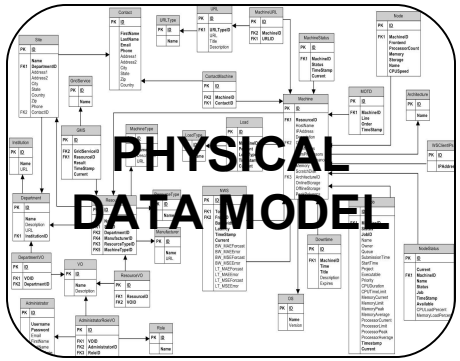
DATA ATTRIBUTE

LOGICAL DATA NAME

PHYSICAL DATA NAME

METADATA

Prime Word
Modifier Word
Class Word



- Prime Words:
  - Business Concept
  - Subject Area

  - Noun or noun phrase
  - Place data elements in context

Example: Case, Person, Air, Water, ...

- Modifier Words:
  - Element(s) of Prime Word or of Class Word
  - Provides clarity and uniqueness
  - Restricts meaning

  - Classes
    - Identification
    - Description
    - Chronology
    - Measurement
    - Comments

  - Noun or verb
  - Completely describes field

Example: _Identity, _Location, _Diagnosis, _Measure
_Identity_Birthdate; _Identity_Date_Birth

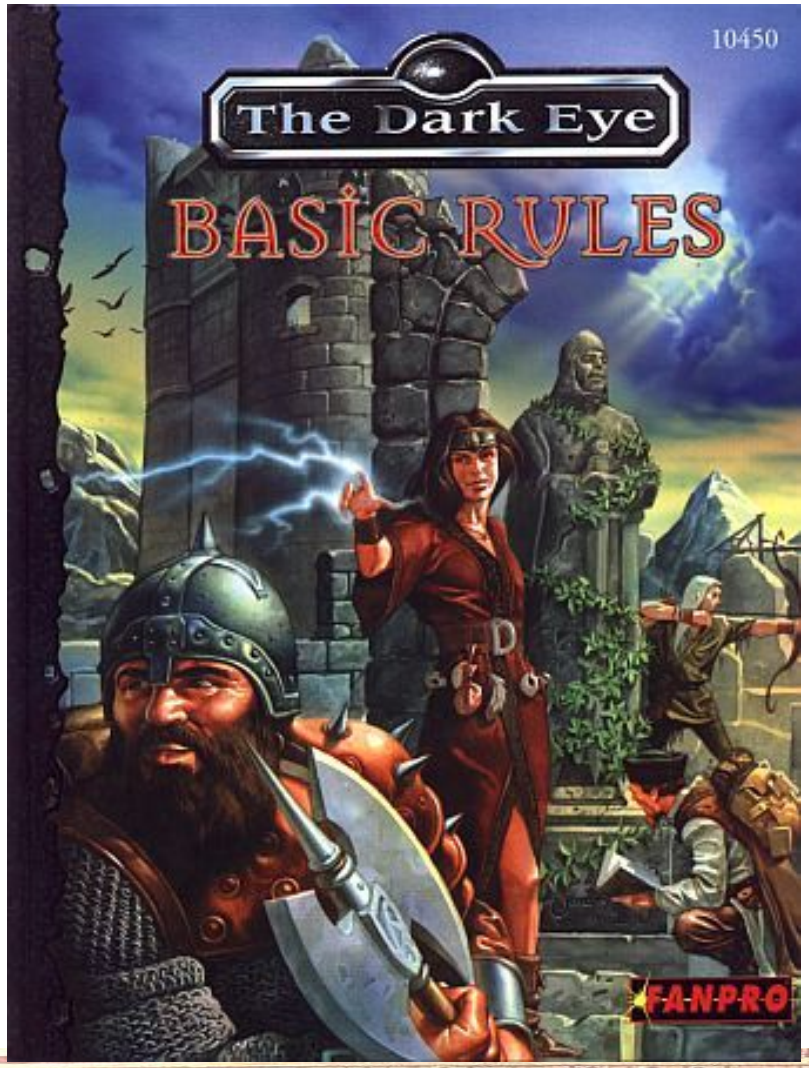
- Class Words:
  - Data category, type or classification
  - Classes

Example:

Value (Numeric, Text)
Look up value
Code
Foreign key
Logical, Flag (True/False)

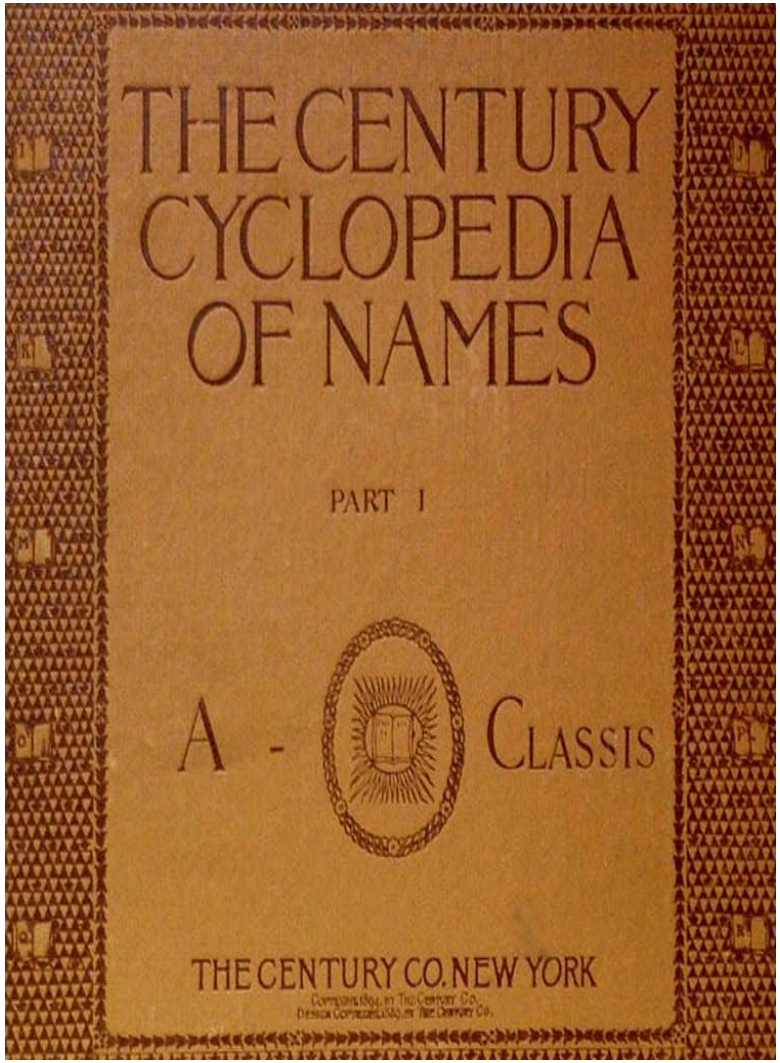
Required
Protected
Encrypted
Confidential

Basic Rules



- Unique
- Form and tense
- Sufficient
- Business oriented
- Use of abbreviations

- Entity level
- Attribute level
- Logical list
- Physical list



Convention Documentation

Entity Level

- Prime
  - Health Outcome HO_
  - Environmental Monitoring EM_
  - Environmental Hazard EH_
  - Bio-monitoring BM_

  - Reference Population PR_
  - Reference Geography GR_

Entity Level

- Modifier Words
  - Related to Data Topic
    - Cancer — CANCER_
    - Drinking Water — DRWATR_
  - Related to Source System
    - Utah Cancer Registry — UCR_
    - Safe Drinking Water Information System — SDWIS_

Entity Level

- More Modifier Words
  - Related to Source Agency
    - Utah Department of Health — UDOH_
    - U.S. Environmental Protection Agency — EPA_
  - Related to Manipulation (Aggregation, Summarization, Conversion, ...)
    - 5-Year Age/Sex Aggregation — 5AS_
    - 24-Hour Average — 24HA_
    - ICDO3 to ICD10 — ICDO3x10_

Entity Level

- Class Words
  - Related to Table Role
    - Imported Data (Provided Data) IMP
    - Staging Tables STG
    - Transformed Data (Standardized) TRF
    - Derived Data DRV
    - Aggregated Data AGD
    - List of Values (Master Lists) LOV
    - Report Tables REP

Entity Level

- Logical Name
  - Imported Utah Cancer Registry Data
  - Utah Cancer Registry Data Aggregated to Counts by 5-Year Age/Sex Groups by 5-Year Time Periods by Census Tracts by SEER SITE code
- Physical Name
  - HO_UCR_CANCER_IMP
  - HO_CANCER_A01_AGD

Attribute Level

- Prime
  - Disease Case — Case_
  - Environmental Measure — Measure_
  - Hazardous Substance — Chemical_
  - Bio Marker — BMarker_
  - Population — Pop_

Attribute Level

- Modifier Words
  - Related to Identity
    - Record Number — RecNbr_
    - Name — Name_
      - Last — Name_Last
    - Sampler (Machine) — ID_Sampler
  - Related to Time
    - Date — Date_
      - Of Birth — Date_Birth
      - Of Diagnosis — Date_Diagnosis
      - Of Sample — Date_Sample

Attribute Level

- More Modifier Words
  - Related to Location
    - Address — Addr_
      - Of Street — Addr_Street_
  - Related to Observations
    - Diagnosis — Diag_
    - Analyte — Analyte_
    - Unit of Measure — Unit_

Attribute Level

- Class Words
  - Related to Table Role
    - KEY — KEY
    - CODE — CODE
    - Data Type — INT, LONG, ...
    - Description — DESC
    - Confidential Data — CONF

The End

- **Questions?**
- **Queries?**
- **Remarks!**
- **Rebuttals@**
- **Rebukes#*%**
- **Stoning !@!**